93-00206/

ASSESSMENT OF PUBLIC ATTITUDES AND OPINIONS ON ENVIRONMENTAL ISSUES IN THE RESTIGOUCHE REGION

1992
SUMMER RESEARCH REPORT
PREPARED FOR THE
RESTIGOUCHE SOLID WASTE COMMITTEE

by

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INTRODUCTION

As requested by the Restigouche Solid Waste Committee, a survey was undertaken to assess the overall attitudes and concerns of the residents of the Restigouche region concerning environmental issues. The survey was in the form of a six page questionnaire containing thirty questions. Sixteen questions dealt directly with environmental issues/awareness while the remaining fourteen were used to describe the characteristics of the sample (7) and their media consumption (7). The survey was distributed throughout the Restigouche region (Robinsonville to Jacquet River) with a stamped, pre-addressed envelope in order to make responding easier. Surveys were distributed in shopping malls, libraries, local events, and, festivals as well as to individuals on the street. The level of subject interest was very high as indicated:

1 - by the large number of people promptly returning the survey in person instead of using the pre-addressed envelope.

2 - by the large number of fully completed surveys.

OBJECTIVES

<u>Part I</u> The assessment of public attitudes and opinions of environmental issues within the Restigouche Solid Waste Committee region.

1) To determine public attitudes towards environmental issues in general.
2) To determine the current level of community awareness concerning the specific issues of solid waste.
3) To determine the level of community awareness and familiarity with the Restigouche Solid Waste Committee.
4) To assess the reach and effectiveness of educational and promotional material developed by the Restigouche Solid Waste Committee.

Part II A survey of what is being recycled in the Restigouche region. (Robinsonville to Jacquet River)

1) Identify recyclers in the Restigouche region.
2) Identify what is being recycled in the Restigouche region.
3) Identify the amount which is being recycled.
4) Determine the level of public awareness concerning recycling.

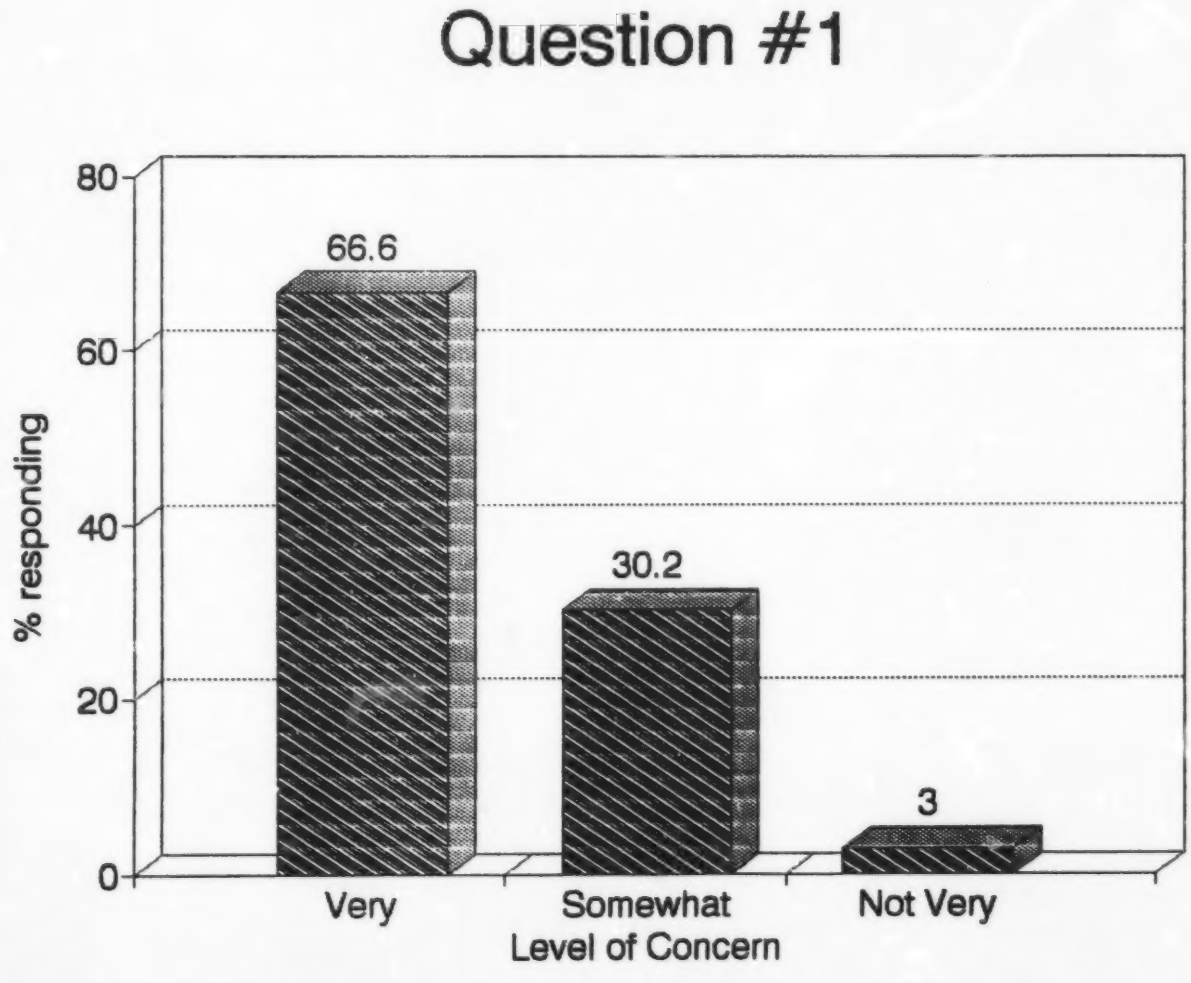
RESEARCH FINDINGS

OVERALL CONCERN IN THE RESTIGOUCHE REGION

Quality of our environment

When asked their level of concern about the overall quality of our environment, here in the Restigouche region, the majority of respondents (66.6 %) stated that they were very concerned, while 30.2 % were somewhat concerned, and only 3.0 % indicated that they were not very concerned. Chart #1 summarizes their answers:

CHART #1


Question #1
80
60
40
20
0
% responding
66.6
30.2
3
Very
Somewhat
Not Very
Level of Concern

As demonstrated in Table #1, these results are similar to those obtained elsewhere in the province.

Table #1

How concerned are you about the quality of our environment here in the Restigouche region ?				
Level of Concern	Region			
	1	2	3	4
Very Concerned	67%	84%	81%	83%
Somewhat Concerned	30%	15%	18%	16%
Not Concerned	3%	1%	1%	1%

Regions
1 = Restigouche
2 = Northumberland
3 = Fundy
4 = Albert - Westmorland

The majority of respondents from all four regions feel very concerned about the environment.

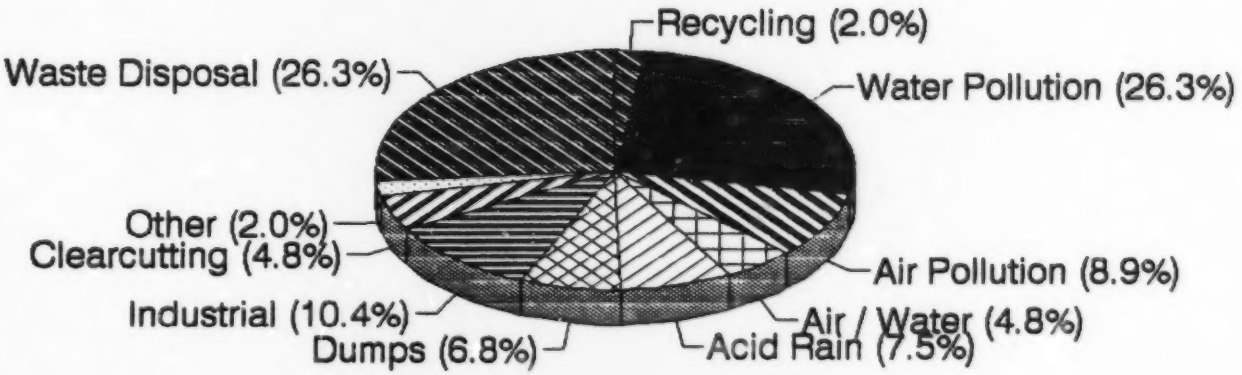
Environmental Problems

Each person in this study was asked an open ended question to determine what they thought was the most important environmental issue in the Restigouche region. A total of 84.0 % of respondents indicated a specific environmental problem. Chart #2 summarizes their responses.

CHART #2

Question #2

Most Important Issue in the Region



As the chart demonstrates, water pollution and waste disposal are the most prominent environmental issues identified in the Restigouche region. (26.3 %)

Significant differences can be found between rural and urban perceptions as to what is the most important issue in the Restigouche region. The differences are seen in Table #2.

Table #2

Urban - Rural differences in perceptions of the most important environmental issue.		
Issue	Area	
	Urban	Rural
Water Pollution	27 %	26 %
Air Pollution	10 %	8 %
Waste Disposal	22 %	29 %
Industrial Pollution	13 %	7 %
Acid Rain	7 %	8 %
Recycling	3 %	1 %
Air and Water	1 %	8 %
Clear Cutting	3 %	5 %
Other	4 %	1 %

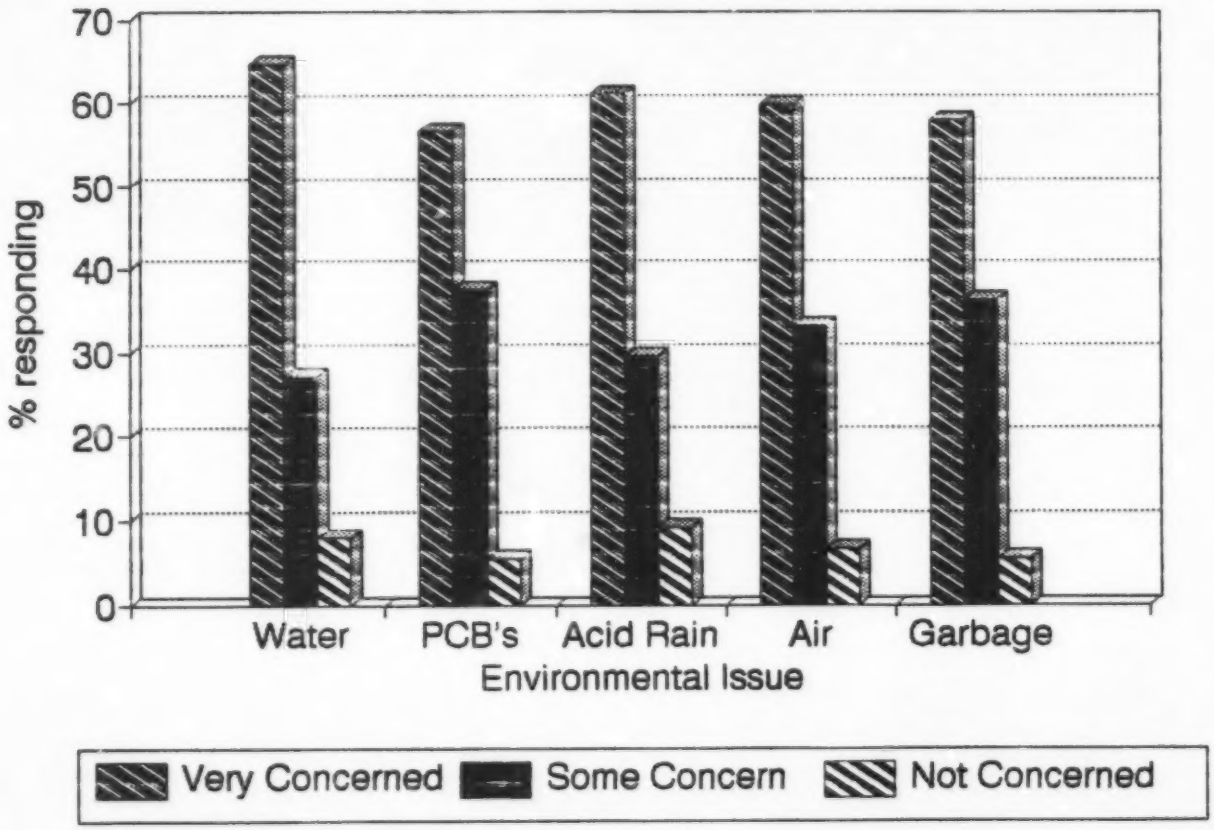
Urban residents sight industrial pollution more often as the most important environmental issue facing them. Similarly, rural residents are more concerned with

solid waste disposal, air/water pollution, and clear-cutting than are their urban counterparts. Aside from these differences the responses from both groups are quite similar.

When asked to classify their concern on specific environmental issues such as water pollution, PCB storage, acid rain, air pollution, or garbage disposal, most respondents replied overwhelmingly to show "Some Concern" or be "Very Concerned". Water pollution drew the most noticeable response with almost 65 % of those questioned indicating that they were "Very Concerned" while acid rain drew the most negative response with almost 10 % of returned questionnaires indicating that people were "Not Concerned". These results can be observed in Chart #3.

CHART #3

Question #3



When asked, specifically, how important an environmental problem is the disposal of household garbage, 69.5 % replied "Very Important". This result is demonstrated in Chart #4.

In order to determine the environmental problems associated with the current dumps in operation, respondents were asked if there were any problems at all. Of those responding, 68.5 % thought that there were environmental problems associated with the current dumps. Chart #5 summarizes the respondents specific concerns with existing dumps.

CHART #4

Question #4

Importance of Garbage Disposal

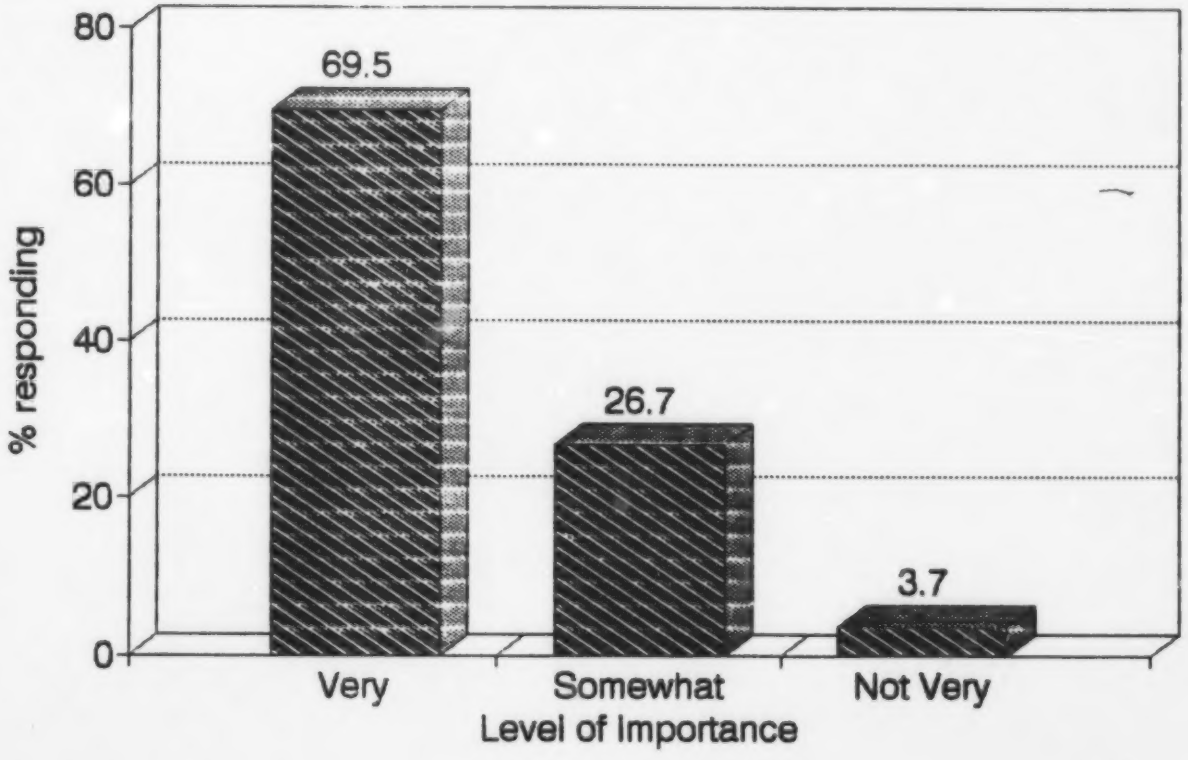
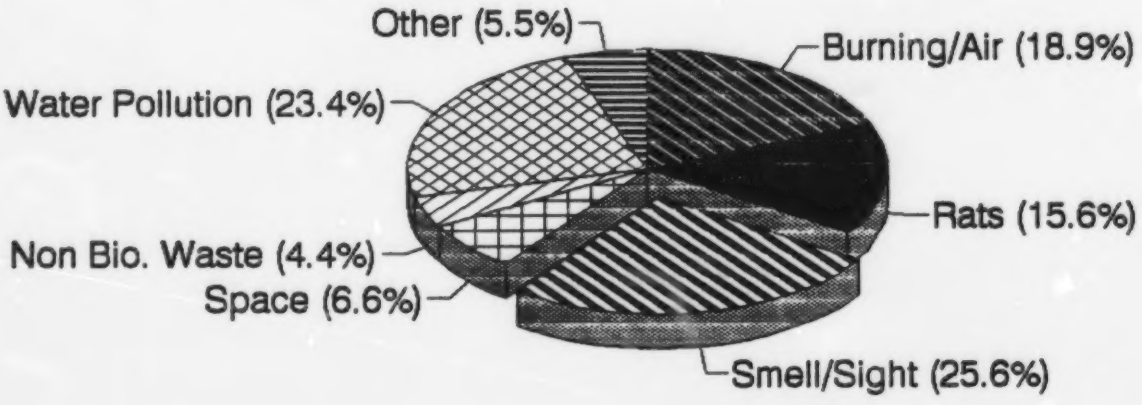


CHART #5

Question #5
Environmental problems with Dumps

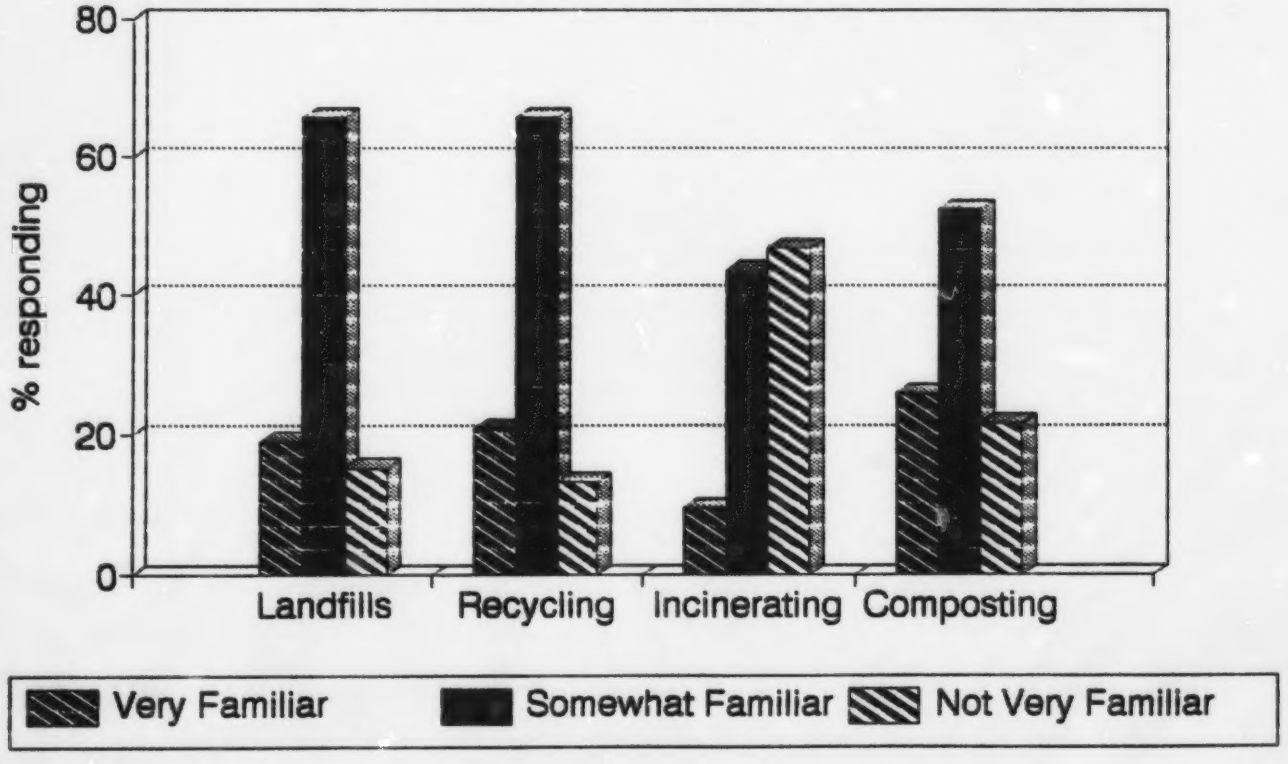


Familiarity with Solid Waste Options

Although a large number of respondants indicated problems with existing dumps, few of those surveyed were very familiar with the current options available as replacements. Incineration showed the lowest level of familiarity with only 10.5 % of the respondants being "Very Familiar" while composting was indicated as "Very Familiar" by 25.0 % of those questioned. These differences can be traced back to the efforts of the Committee. Incineration is rarely mentionned in the surrounding communities as an option and thus has a low level of familiarity. On the other hand composting was mentionned throughout the region this summer at fairs and demonstrations resulting in the relatively high level of awareness. These results are summarized in Chart #6.

CHART #6

Question #6
Familiarity with Disposal Alternatives



The majority of respondants (78.5 %) knew what a sanitary landfill was. This can be credited to the high visibility of the Committee at fairs and meetings with the sanitary landfill "Mock-up", promotional material, and educational videos.

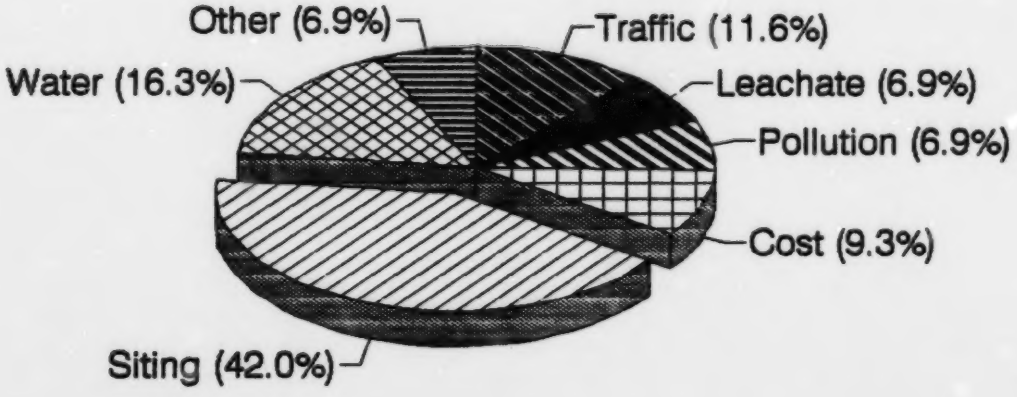
When asked if they would favor or oppose the establishment of a sanitary landfill in their town or community 62.5 % stated that they were in favor.

Only 30.3 % of those surveyed had particular concerns about a sanitary landfill. The majority of these preoccupations were with siting (42.0 %). Although people are familiar with sanitary landfills NIMBY (Not In My Back Yard) is still a major concern among local residents. Other preoccupations were with increased truck traffic and water pollution. It is interesting to note that only 9.3 % stated cost as a concern.

These results are summarized in Chart #7.

CHART #7

Question #9
Concerns about a Sanitary Landfill



Perception about Treatment Alternatives

Given a choice between the four main solid waste treatment alternatives (Sanitary landfill, Composting, Recycling, and Incineration) 46.9 % of those polled chose recycling as the best alternative. This large response is likely due to the high exposure that recycling recieves in our society through the media. The sanitary landfill option recieved 36.1 % support as the best option to the dumps currently used. Again, high media exposure tends to influence the choice of alternative. Composting and incineration, both with low media exposure, show low support. Thes results are demonstrated in Chart #8.

When asked specifically to classify their concern about replacing current dumps with sanitary landfills over 85 % of those surveyed indicated sanitary landfills as a "Good" or "Excellent" alternative. Chart #9 describes the results.

CHART #8

Question #12

What is the best alternative to dumps?

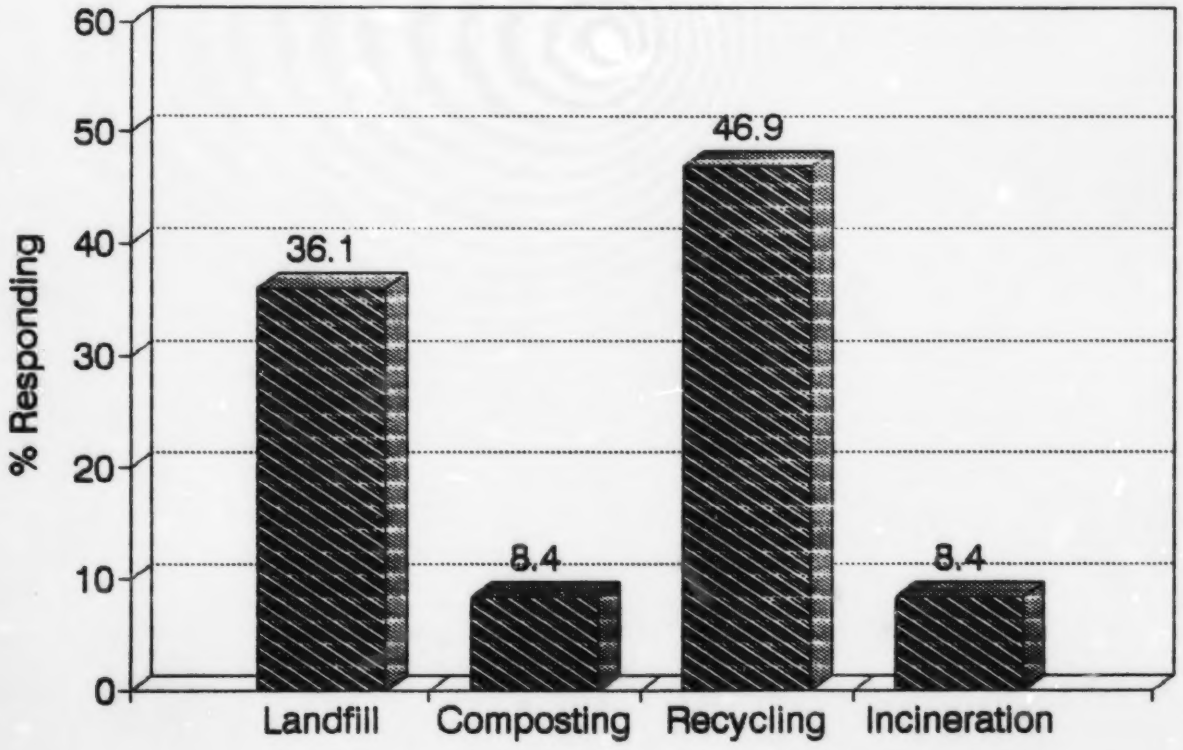
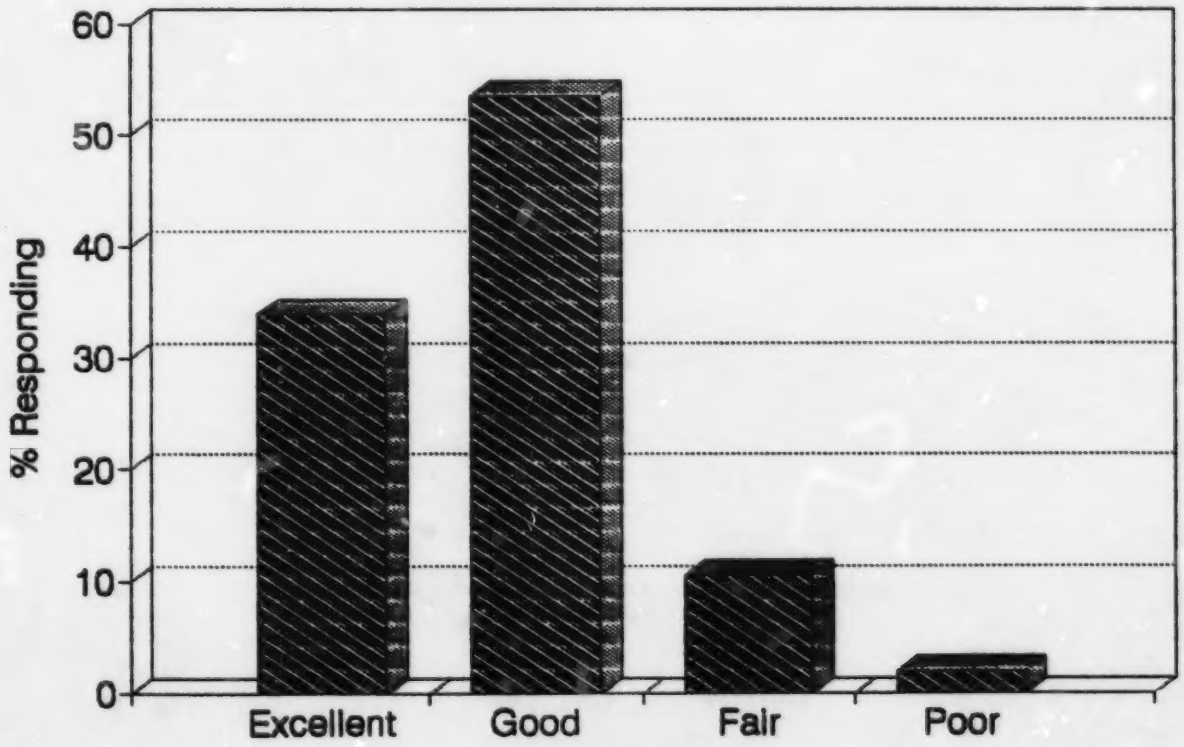


CHART #9

Question #10
Landfills as Alternatives to Dumps



Fees

Each respondent was asked what would be a reasonable yearly fee for each household to pay for the collection, treatment, and recycling of their garbage. The average amount was calculated to be $ 83.11, with answers ranging from $ 0 to $ 400. Some novel answers like "% 25 of the annual water tax", "5 cents a pound", and "not a cent more; I already pay high taxes" were given.

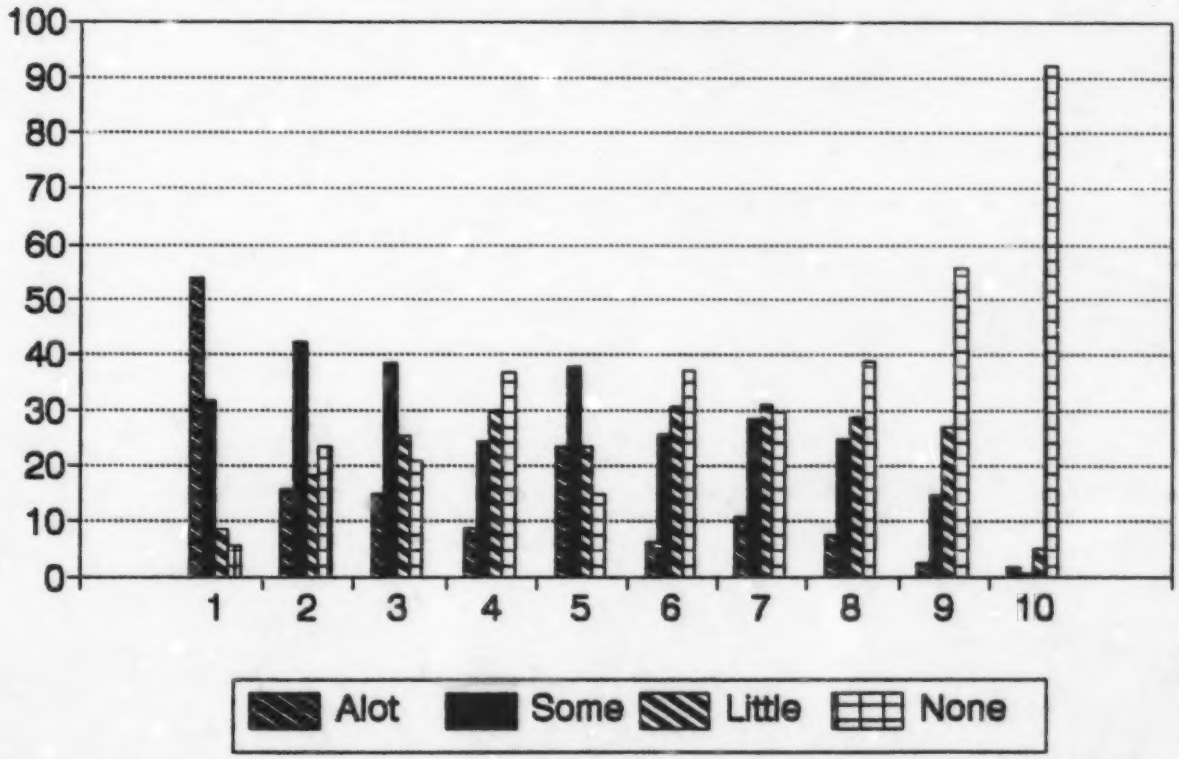
Information about environmental issues

When asked what was their best source of environmental information; 53.8 % stated television, 16.8 % magazines, and 8.4 % local newspapers.

In order to determine how much information was recieved from the different sources a specific question was asked to rate each source as to the level recieved. Television and newspapers were highly rated while work and community groups were at the low end. Chart #10 outlines the results.

CHART #10

Question #14
Environmental information from:



1 = TV
2 = Prov. Newspapers
3 = Local Newspapers
4 = Newsletters
5 = Magazines
6 = Mail
7 = Friends
8 = Work
9 = Community Groups
10 = Other

Familiarity with the Committee

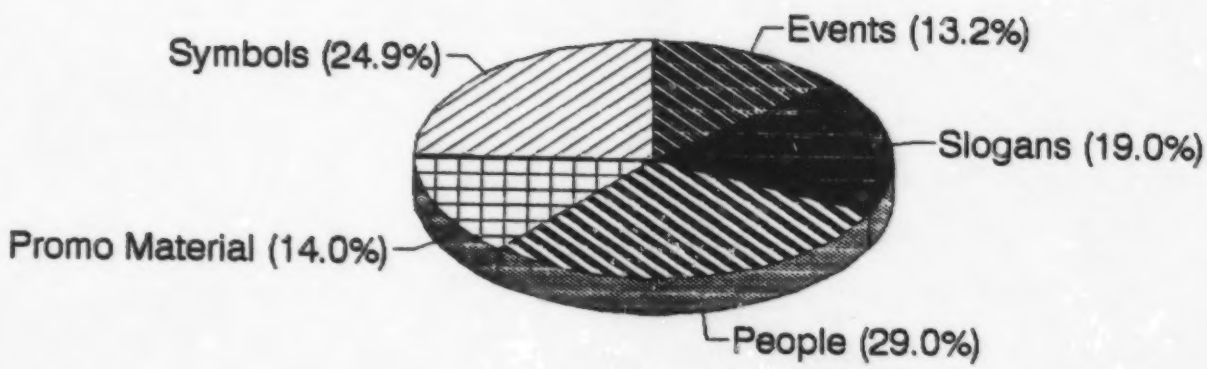
A yes/no question was asked to gauge the familiarity of the public with any group or committee which was involved with efforts to solve the garbage problems in the Restigouche region. 44.9 % of those surveyed indicated "Yes" while 37.7 % could specifically identify the Restigouche Solid Waste Committee.

When asked what comes to mind when thinking of that group or committee 29.0 % indicated people, 24.9 % symbols, and 19.0 % slogans. Chart #11 shows the results.

Unique answers such as: Ian Comeau, T-Shirts, trade fairs, meetings, newspapers, slogans, and "watch your waste" were also received when asked to explain.

CHART #11

Question #23
Committee Awareness



Media Consumption

In order to provide the Committee with a better understanding of the media consumption patterns of the residents of the Restigouche region; questions were asked pertaining to newspapers, radio, and television.

Newspapers: The majority of respondents indicated that local newspapers were the best papers to use to get information to them. (Tribune, L'Aviron, and Dalhousie News)

Radio: CKNB was indicated as the station of choice by the majority of people. 66.8 % of the respondents stated that they listened to the radio before noon.

Television: Over half (54.1 %) of those polled indicated that they watched their local cable's advertising channel once a month or less.

Clearly, the way to provide environmental information to people in the Restigouche region is through the local newspapers and during the morning on CKNB.

RECYCLING

Currently, 62.4 % of the households in the Restigouche region recycle in some form or another. The majority of these households (79.2 %) indicated that they recycled beverage containers while a few (20.8 %) recycled plastic, paper, and metal. See Chart #12 for a complete breakdown.

A telephone survey was conducted to identify local recyclers in the Restigouche region. A total of seven recyclers that service the Restigouche region were identified. They are:

1 - Inland Oil.....Used oil

2 - Mill Auto Parts Recycling.....Used auto parts

3 - Better World Recycling.....Newspapers, cans, paper, bottles, and cardboard.

4 - Campbellton Salvage and Bottle Exchange.....Bottles, cans, and scrap metals

5 - Triple R Cartridges.....Photocopier and laser printer cartridges

6 - Indisposables Cotton Diaper Co.....Reusable diapers

7 - Marina Bottle Exchange.....Bottles and cans

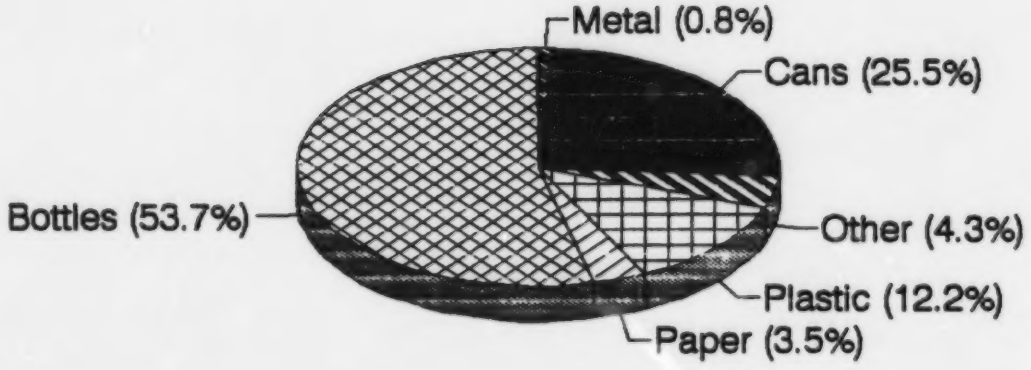
Five of the seven were based in the region while the other two had 800 numbers where they could be reached quite easily.

Unfortunately, Better World Recycling went out of business in mid-summer due to a lack of participation on

CHART #12

Question #7

What Recyclers indicate they recycle:



the part of the general public caused by some confusion as to their location and confusion over what they recycled. This confusion is not limited to Better World but affects many of the area recyclers including the two area Provincial Redemption Centers.

Advertising seemed to be a low priority among the area recyclers. Only four of the seven had advertisements in the yellow pages (Mill Auto Parts Recycling, Campbellton Salvage and Bottle Exchange, Triple R Cartridges, and Indisposable Cotton Diaper Co.) and only one (Triple R Cartridges) of those four was listed under "Recyclers". None of the recyclers contacted had advertisements in the local papers or on local radio stations and only one (Triple R Cartridges) had promotional material available.

Recycling is seen as the best alternative to the dumps currently used in the Restigouche region as indicated in Table #3.

Table #3

Recycling	46.9 %
Composting	8.4 %
Incineration	8.4 %
Sanitary Landfill	36.1 %

If this large portion of the population were better informed as to the locations and hours of operation of the local recycling centers, a substantial amount of volume of the solid waste stream could be eliminated.

Better advertising such as promotional spots on the local radio stations, cable channels, and local newspapers would help to clarify some of the misconceptions about the area recyclers. Included in this report are some results of the media consumption of residents of the Restigouche region. This may be very helpful in planning an advertising campaign for the local recyclers; especially the Redemption Centers. The Restigouche Solid Waste Committee could also aid local recyclers by providing them with information on entrepreneurial courses, public education concerning existing recycling programs, and information on different collection systems. (Drop off, Curbside, and Depot)

Overall, the public shows an overwhelming desire to begin recycling in this area and with the proper encouragement and implementation a recycling program is certain to have a large participation rate.

COMPOSTING

Currently, 30.4 % of the households surveyed in the Restigouche region compost. This number can be expected to grow as more and more people become aware of the practice of composting. A composting demonstration consisting of samples of organic kitchen waste, finished compost, and educational/promotional material was set up during "Market Days" at Dalhousie's Bon Ami festival. One of three commercially made composting units on display was drawn for from the 150 names of people who had filled out ballots. Overall, the idea of backyard composting was well received with many people stopping and inquiring how to get started.

ENVIRONMENT DAY

On July 30th, 1992 the Restigouche Solid Waste Committee, in conjunction with the Campbellton Parks and Recreation Department, held an "Environment Day" at the Leisure Center. The day included movies, contests, discussions, a playground clean up, and was highlighted by tours of the Wastewater Treatment Plant and Campbellton Salvage and Bottle Exchange. (Appendix E)

The tour of the Wastewater Treatment Plant took the participants through all of the stages, from beginning to end, in the wastewater treatment process and included a demonstration of the laboratory work involved.

The tour of Campbellton Salvage and Bottle Exchange showed the participants how a modern redemption center operates and familiarized them with the drop off location and procedure.

Approximately thirty children and staff participated in the day long event which saw the implementation of a Blue box recycling program (Bottles and Cans) at the Leisure Center. Early feedback suggests that the recycling program is proceeding successfully and there is interest in a repeat event.

CONCLUSION

Based on the information presented in this report, the following conclusions can be drawn:

1) Residents of the Restigouche region show a high level of concern for the environment in their region.

2) Waste disposal and water pollution are the most important environmental issues in the Restigouche region.

3) There are problems with existing dumps.

4) Recycling and sanitary landfills are perceived as the best alternatives to dumps.

5) Residents are willing to pay substantial amount for the collection, treatment, and recycling of their garbage.

6) The Restigouche Solid Waste Committee has a high level of public awareness within the Restigouche region.

7) Recyclers need the help of the Committee in order to implement recycling programs within the region.

APPENDIX A

Comité des Déchets Solides de Restigouche
Sondage
1992

1. Tout d'abord, diriez-vous que vous devriez:

être beaucoup inquiet _____
être inquiet quelque peu _____
Ne pas tellement être inquiet _____

de la qualité général de notre environnement dans la région de Restigouche?

2. D'après ce que vous avez vu, entendu dire, lu ou expérimenté vous-même, quel est actuellement le problème principal de l'environnement dans la région de Restigouche?

_____
_____
_____

3. La média parle souvent des questions environnementales qui, selon elle, intéresse ou inquiète la population de la province, ou sont jugées importantes par la population. Comme Néo-Brunswickois êtes-vous très inquiet, quelque peu inquiet ou pas très inquiet ...

	Très inquiet	Un peu inquiet	Pas inquiet
de la qualité de l'eau potable dans votre localité?	_____	_____	_____
de l'entreposage de substances chimiques toxiques et de BPC au Nouveau-Brunswick?	_____	_____	_____
des effets des pluies acides au Nouveau-Brunswick?	_____	_____	_____
de la pollution de l'air au Nouveau-Brunswick?	_____	_____	_____
des déchets et ordures produits dans votre localité?	_____	_____	_____

4. Est-ce que la question des ordures ménagères est un problème très important, quelque peu important ou pas très important pour l'environnement?

très important _____
quelque peu important _____
pas très important _____

5. Pensez-vous que les dépotoirs où l'on dispose actuellement les déchets ou ordures des localités créent un problème pour l'environnement?

Oui _____ Non _____

Si oui, quels sont ces problèmes _____

_____

6. Dans quelle mesure êtes-vous renseigné sur les différentes façons de traiter les déchets ou ordures? Est-ce que vous y connaissez très bien, un peu ou pas beacoup ...

	Très bien	Un peu	Pas beaucoup
des enfouissements sanitaires	_____	_____	_____
des programmes de recyclage	_____	_____	_____
des incinérateurs	_____	_____	_____
du compostage de cours	_____	_____	_____

7. Est-ce que vous faites du compostage ou recyclage?

Compostage Oui _____ Non _____

Recyclage Oui _____ Non _____

Si vous faites du recyclage, listez les matériaux: _____

_____

8. Est-ce que vous êtes familier avec un site d'enfouissement sanitaire?

Oui _____ Non _____

9. Avez vous des inquiétudes particulières concernant un site d'enfouissement sanitaire?

Oui _____ Non _____

Si oui, quelles sont ces inquiétudes? _____

_____

10. Si un lieu d'enfouissement sanitaire régional pouvait être aménagé pour remplacer les dépotoirs actuels, pensez vous qu'il serait un moyen excellent, bon, moyen ou mauvais de traiter une partie des déchets ou ordures qui sont produits dans cette région?

Excellent _____ Bon _____

Moyen seulement _____ Mauvais _____

11. Si un enfouissement sanitaire était aménagé pour la région de Restigouche, seriez-vous pour ou contre l'aménagement d'un tel site d'enfouissement sanitaire dans votre ville, village ou district des services locaux?

Pour _____ Contre _____

Pourquoi?_____

12. Parmi les différentes options possibles, d'après vous laquelle remplacerait le mieux les dépotoirs actuels?

Enfouissement sanitaire _____
Compostage _____
Recyclage _____
Incinérateur _____

13. Si on faisait payer un montant annuel à chaque ménage de la région Restigouche pour la collecte, le traitement et le recyclage des ordures ménagères, d'après vous qu'est-ce qui serait raisonnable comme montant à payer par année pour votre ménage?

$ _____

14. Qu'est-ce que vous obtenez comme information sur l'environnement à partir.....

	Beaucoup	Une certaine quantité	Un peu	Rien
de la télévision	_____	_____	_____	_____
des journaux provinciaux	_____	_____	_____	_____
des journaux locaux	_____	_____	_____	_____
des bulletins de nouvelles	_____	_____	_____	_____
des magazines	_____	_____	_____	_____
des envois reçus dans le courrier	_____	_____	_____	_____
des amis	_____	_____	_____	_____
au travail	_____	_____	_____	_____
des groupes communautaires	_____	_____	_____	_____
d'autres	_____	_____	_____	_____

Si d'autres, où _____

15. Laquelle des sources suivantes est pour vous la meilleure source d'information sur l'environnement ou les questions qui concernent l'environnement?

Télévision _____ Journaux provinciaux _____
Journaux locaux _____ Bulletins de nouvelles _____
Magazines _____ Envois par la poste _____
Amis _____ Travail _____
Groupes communautaires _____ Autre _____

16. Lisez-vous les publications suivantes?

	Chaque jour	une fois par semaine	quelques fois par mois	une fois	jamais
L'Acadie Nouvelle	_____	_____	_____	_____	_____
Moncton Times-Transcript	_____	_____	_____	_____	_____
Telegraph Journal	_____	_____	_____	_____	_____
L'Aviron		_____	_____	_____	_____
Tribune		_____	_____	_____	_____
Dalhousie News		_____	_____	_____	_____

17. Lequel des journaux suivants pourrait le mieux vous fournir de l'information...

L'Acadie Nouvelle _____
Telegraph Journal _____
Moncton Times-Transcipt _____
L'Aviron _____
Dalhousie News _____
Tribune _____

18. Quelle station de télévision regardez vous le plus souvent?

CHAU-TV _____
CBC _____
ATV _____
Radio Canada _____
ASN _____

19. Combien souvent regardez vous le canal du câble qui est réservé à la publicité et aux annonces locales?

Tous les jours _____
Quelques fois par mois _____
Quelques fois par semaine _____
Une fois par mois _____
Jamais _____
N'a pas la TV par câble _____

20. Quelle poste de radio écoutez-vouz le plus souvent?

	Chaque jour	quelques fois par semaine	quelques fois par mois	une fois par mois	jamais
CHNC 610 am	_____	_____	_____	_____	_____
CKNB 950 am	_____	_____	_____	_____	_____
CBC 90.5 fm	_____	_____	_____	_____	_____
Radio Canada 91.5 fm	_____	_____	_____	_____	_____
CIEU 94.9 fm	_____	_____	_____	_____	_____
CHRQ 106.9 fm	_____	_____	_____	_____	_____

21. Quel moment de la journée avez-vous le plus de chance d'écouter la radio?

Avant 9 heures le matin _____
Entre 9 heures et midi _____
Entre midi et 3 heures de l'après-midi _____
Entre 3 heures et 6 heures de l'après-midi _____
Entre 6 heures et 9 heures le soir _____
Aprés 9 heures le soir _____

22. Connaissez-vous un groupe ou un comité. qui participe à des efforts pour trouver des solutions au problème des ordures dans la région de Restigouche?

Oui _____ Non _____

Nom de groupe ou comité _____

23. Quand vous pensez à ce comité, qu'est-ce que cela vous rappelle?

activités _____ choses qu'il a produit _____
slogans _____ symboles _____
peuple _____

Expliquez-vous SVP _____

24. Si on doit-vous contacter, quelle langue préferez-vous?

Français _____ Anglais _____

Nous aimerions finir le sondage en posant quelques questions à votre sujet pour comparer les attitudes de différents groupes de personnes.

25. Homme _____ Femme _____

26 Age

0 - 20 _____
20 - 30 _____
30 - 40 _____
40 - 50 _____
50 - 60 _____
60 - 70 _____
70 + _____

27. Est-ce que vous êtes propriétaire ou locataire de la maison où vous demeurez?

Propriétaire _____ Locataire _____

28. Quel est votre statut emploi?

Votre propre compte	_____
Emploi à temps plein	_____
Emploi à temps partiel	_____
Sans emploi	_____
à la retraite	_____
Étudiant(e)	_____
Femme au foyer	_____

29. Quel était le revenu total de votre ménage en 1991 avant les impôts?

Moins de $20,000	_____
Entre $20,000 et $25,000	_____
Entre $25,000 et $30,000	_____
Entre $30,000 et $35,000	_____
Entre $35,000 et $40,000	_____
Plus de $40,000	_____

30. Dans quelle ville, village, ou district des services locaux habitez-vous?

_____

Merci pour votre temps et coopération. Si vous avez des questions concernant les déchets solides ou l'environnement; communiquer avec:

Comité des Déchets Solides de Restigouche
A/S Ian Comeau
CP 93
Campbellton, Nouveau-Brunswick
E3N 3G1

Téléphone 759-7262
Télécopieur (Fax.) 759-7403

Restigouche Solid Waste Committee Survey
1992

1. Would you say that you should be: (Please check one)

Very Concerned _____
Somewhat Concerned _____
Not Very Concerned _____

about the overall quality of our environment here in the Restigouche region.

2. Based on what you have seen, heard, read, or experienced, what do you think is the most important environmental issue facing the residents of the Restigouche region.

_____
_____
_____

3. The press often cover some of the environmental issues which they think are of interest, concern or importance to people in this province. How would you classify your concern? (Check one answer for each question)

	Very Concerned	Some Concern	Not Concerned
The quality of drinking water in your community.	_____	_____	_____
The storage of toxic chemicals and PCB's in New Brunswick.	_____	_____	_____
The effects of acid rain on New Brunswick.	_____	_____	_____
Air pollution within New Brunswick.	_____	_____	_____
The waste and garbage produced in your community.	_____	_____	_____

4. How important an environmental problem is the disposal of household garbage? (Please check one)

Very important _____
Somewhat important _____
Not very important _____

5. Do you think that the dumps currently used to handle local garbage present any environmental problem? (Please check one)

Yes _____ No _____

If yes, what problem(s): _____
_____

6. How familiar are you with the different alternatives for handling garbage? (Please check one answer for each alternative)

	Very Familiar	Somewhat Familiar	Not Very Familiar
Sanitary Landfills	_____	_____	_____
Recycling Programs	_____	_____	_____
Incinerators	_____	_____	_____
Backyard Composting	_____	_____	_____

7. Do you compost or recycle? (Please check yes or no for each)

Compost Yes _____ No _____
Recycle Yes _____ No _____

If you recycle, what do you recycle? _____

8. Do you know what a sanitary landfill site is? (Please check one)

Yes _____ No _____

9. Are there any particular concerns that you have about a sanitary landfill? (Please check one)

Yes _____ No _____

If Yes: _____

10. Do you think that replacing current dumps with a regional sanitary landfill to handle some of the garbage in the area is a good alternative? (Please check one)

Excellent _____ Good _____ Fair _____ Poor _____

11. If a sanitary landfill were established to serve the Restigouche region would you favour or oppose the location of that landfill in your town or community? (Please check one)

Favour _____ Oppose _____

Why? _____

12. What do you think is the best alternative to the dumps currently used? (Please check one)

Sanitary Landfill _____
Composting _____
Recycling _____
Incineration _____

13. If every household in New Brunswick were to be charged an annual fee for the collection, treatment and recycling of their garbage, what do you think would be a reasonable yearly fee for your household?

$ _____

14. How much information do you get about environmental issues from the following sources? (Please check one for each source)

	Alot	Some	Little	None
Television	_____	_____	_____	_____
Provincial Newspapers	_____	_____	_____	_____
Local Newspapers	_____	_____	_____	_____
Newsletters	_____	_____	_____	_____
Magazines	_____	_____	_____	_____
Mail	_____	_____	_____	_____
Friends	_____	_____	_____	_____
Work	_____	_____	_____	_____
Community Groups	_____	_____	_____	_____
Other	_____	_____	_____	_____

if Other where: _____

15. Which is your one best source of information on the environment or environmental issues? (Please check one)

Television	_____	Community Groups	_____	Mail	_____
Local Newspapers	_____	Provincial Newspapers	_____	Work	_____
Magazines	_____	Newsletters	_____	Other	_____
Friends	_____				

16. How often do you read the following papers? (Please check one for each paper)

	Daily	Once A Week	A Few Times A Month	Once A Month	Never
L'Acadie Nouvelle	_____	_____	_____	_____	_____
Moncton Times	_____	_____	_____	_____	_____
Telegraph Journal	_____	_____	_____	_____	_____
L'Aviron		_____	_____	_____	_____
Tribune		_____	_____	_____	_____
Dalhousie News		_____	_____	_____	_____

17. Which one newspaper would be the best to use to get information to you? (Please check one)

L'Acadie Nouvelle	_____	L'Aviron	_____
Telegraph Journal	_____	Dalhousie News	_____
Moncton Times	_____	Tribune	_____

18. Which television station do you watch most often? (Please check one)

CHAU	_____	Radio Canada	_____
CBC	_____	ASN	_____
ATV	_____		

19. How often do you watch your local cable TV's advertising and local announcement channel? (Please check one)

Every day	_____	Once a month	_____
A few times a month	_____	Never	_____
A few times a week	_____	Do Not Have Cable	_____

20. How often do you listen to the following radio stations? (Please check one or each)

	Every Day	A Few Times A Week	A Few Times A Month	Once A Month	Never
CHNC 610 am	_____	_____	_____	_____	_____
CKNB 950 am	_____	_____	_____	_____	_____
CBC 90.5 fm	_____	_____	_____	_____	_____
Radio Canada 91.5 fm	_____	_____	_____	_____	_____
CIEU 94.9 fm	_____	_____	_____	_____	_____
CHRQ 106.9 fm	_____	_____	_____	_____	_____

21. When are you most likely to listen to the radio? (Please check one)

Before 9am	_____
Between 9am and Noon	_____
Between Noon and 3pm	_____
Between 3pm and 6pm	_____
Between 6pm and 9pm	_____
After 9pm	_____

22. Are you familiar with any group or committee which is involved with efforts to solve the garbage problems in the Restigouche region? (Please check one)

Yes _____ No _____

Name of group or committee _____

23. What comes to mind when you think of that group or committee? (Please check the appropriate answer(s))

Events	_____	Promotional Material	_____
Slogans	_____	Symbols	_____
People	_____		

Please Explain _____

_____

24. If we were to contact you, which language would you prefer we use?

French _____ English _____

We would like to end this survey with some questions about you so that we can compare the attitudes of different groups of people.

25. Are you: Male _____ Female _____

26. How old are you?

Under 20	_____
20 - 30	_____
30 - 40	_____
40 - 50	_____
50 - 60	_____
60 - 70	_____
Over 70	_____

27. Do you own or rent the house in which you live? (Please Check one)

Own _____ Rent _____

28. Are you currently: (Please check one)

Self employed	_____
Employed full-time	_____
Employed part-time	_____
Unemployed	_____
Retired	_____
A student	_____
A housewife	_____

29. Was your total household income before taxes in 1991: (Please check one)

Less than $20,000	_____
Between $20,000 & $25,000	_____
Between $25,000 & $30,000	_____
Between $30,000 & $35,000	_____
Between $35,000 & $40,000	_____
Greater than $40,000	_____

30. What city, town, or village do you live in?

_____

Thank you for time and cooperation. If you have any questions concerning solid waste or the environment please contact:

Restigouche Solid Waste Committee
C/O Ian Comeau
PO Box 93
Campbellton, New Brunswick
E3N 3G1

Telephone 759-7262
Fax. 759-7403

APPENDIX B

Restigouche Solid Waste Committee Survey
1992

1. Would you say that you should be: (Please check one)

Very Concerned 108
Somewhat Concerned 49
Not Very Concerned 5

about the overall quality of our environment here in the Restigouche region.

2. Based on what you have seen, heard, read, or experienced, what do you think is the most important environmental issue facing the residents of the Restigouche region.

_____
_____
_____

3. The press often cover some of the environmental issues which they think are of interest, concern or importance to people in this province. How would you classify your concern? (Check one answer for each question)

	Very Concerned	Some Concern	Not Concerned
The quality of drinking water in your community.	105	44	13
The storage of toxic chemicals and PCB's in New Brunswick.	92	61	9
The effects of acid rain on New Brunswick.	99	48	15
Air pollution within New Brunswick.	97	54	11
The waste and garbage produced in your community.	94	59	9

4. How important an environmental problem is the disposal of household garbage? (Please check one)

Very important 112
Somewhat important 43
Not very important 6

5. Do you think that the dumps currently used to handle local garbage present any environmental problem? (Please check one)

Yes 109 No 50

If yes, what problem(s): _____
_____

6. How familiar are you with the different alternatives for handling garbage? (Please check one answer for each alternative)

	Very Familiar	Somewhat Familiar	Not Very Familiar
Sanitary Landfills	30	104	24
Recycling Programs	33	104	21
Incinerators	15	69	74
Backyard Composting	41	83	34

7. Do you compost or recycle? (Please check yes or no for each)

Compost Yes 48 No 110
Recycle Yes 98 No 59

If you recycle, what do you recycle? _____

8. Do you know what a sanitary landfill site is? (Please check one)

Yes 124 No 34

9. Are there any particular concerns that you have about a sanitary landfill? (Please check one)

Yes 47 No 108

If Yes: _____

10. Do you think that replacing current dumps with a regional sanitary landfill to handle some of the garbage in the area is a good alternative? (Please check one)

Excellent 52 Good 82 Fair 16 Poor 3

11. If a sanitary landfill were established to serve the Restigouche region would you favour or oppose the location of that landfill in your town or community? (Please check one)

Favour 97 Oppose 58

Why? _____

12. What do you think is the best alternative to the dumps currently used? (Please check one)

Sanitary Landfill 60
Composting 14
Recycling 38
Incineration 14

13. If every household in New Brunswick were to be charged an annual fee for the collection, treatment and recycling of their garbage, what do you think would be a reasonable yearly fee for your household?

$ 83.11

14. How much information do you get about environmental issues from the following sources? (Please check one for each source)

	Alot	Some	Little	None
Television	87	51	14	9
Provincial Newspapers	25	62	29	37
Local Newspapers	24	61	40	33
Newsletters	14	38	47	58
Magazines	37	60	37	24
Mail	10	40	48	59
Friends	17	45	49	47
Work	12	39	45	61
Community Groups	4	23	42	82
Other	3	1	8	144

if Other where: _____

15. Which is your one best source of information on the environment or environmental issues? (Please check one)

Television	83	Community Groups	5	Mail	4
Local Newspapers	13	Provincial Newspapers	4	Work	6
Magazines	26	Newsletters	4	Other	1
Friends	8				

16. How often do you read the following papers? (Please check one for each paper)

	Daily	Once A Week	A Few Times A Month	Once A Month	Never
L'Acadie Nouvelle	27	20	13	6	94
Moncton Times	23	24	23	8	82
Telegraph Journal	23	20	27	5	85
L'Aviron		33	13	11	103
Tribune		82	13	9	55
Dalhousie News		32	8	7	105

17. Which one newspaper would be the best to use to get information to you? (Please check one)

L'Acadie Nouvelle	31	L'Aviron	14
Telegraph Journal	12	Dalhousie News	20
Moncton Times	15	Tribune	60

18. Which television station do you watch most often? (Please check one)

CHAU	25	Radio Canada	25
CBC	41	ASN	27
ATV	34		

19. How often do you watch your local cable TV's advertising and local announcement channel? (Please check one)

Every day	16	Once a month	22
A few times a month	17	Never	30
A few times a week	30	Do Not Have Cable	33

20. How often do you listen to the following radio stations? (Please check one or each)

	Every Day	A Few Times A Week	A Few Times A Month	Once A Month	Never
CHNC 610 am	27	6	6	11	107
CKNB 950 am	113	27	4	0	13
CBC 90.5 fm	7	13	5	11	121
Radio Canada 91.5 fm	6	7	7	7	130
CIEU 94.9 fm	17	10	8	12	110
CHRQ 106.9 fm	23	14	5	5	109

21. When are you most likely to listen to the radio? (Please check one)

Before 9am	65
Between 9am and Noon	38
Between Noon and 3pm	17
Between 3pm and 6pm	13
Between 6pm and 9pm	15
After 9pm	6

22. Are you familiar with any group or committee which is involved with efforts to solve the garbage problems in the Restigouche region? (Please check one)

Yes 70 No 86

Name of group or committee _____

23. What comes to mind when you think of that group or committee? (Please check the appropriate answer(s))

Events	16	Promotional Material	17
Slogans	23	Symbols	30
People	35		

Please Explain _____

_____

24. If we were to contact you, which language would you prefer we use?

French 69 English 87

We would like to end this survey with some questions about you so that we can compare the attitudes of different groups of people.

25. Are you: Male 88 Female 70

26. How old are you?

Under 20	19
20 - 30	24
30 - 40	40
40 - 50	42
50 - 60	22
60 - 70	7
Over 70	5

27. Do you own or rent the house in which you live? (Please Check one)

Own 111 Rent 40

28. Are you currently: (Please check one)

Self employed	15
Employed full-time	77
Employed part-time	27
Unemployed	0
Retired	12
A student	13
A housewife	4

29. Was your total household income before taxes in 1991: (Please check one)

Less than $20,000	26
Between $20,000 & $25,000	24
Between $25,000 & $30,000	39
Between $30,000 & $35,000	38
Between $35,000 & $40,000	7
Greater than $40,000	19

30. What city, town, or village do you live in?

Thank you for time and cooperation. If you have any questions concerning solid waste or the environment please contact:

Restigouche Solid Waste Committee
C/O Ian Comeau
PO Box 93
Campbellton, New Brunswick
E3N 3G1

Telephone 759-7262
Fax. 759-7403

APPENDIX C

Survey Progress Report

WEEK #1 Read promotional/educational material about the Restigouche Solid Waste Committee and sanitary landfills. Formulated english version of the survey.

WEEK #2 Sent survey to Fredericton for approval/correction. Translated english version into french. Printed survey and began distribution during Salmon Festival. Set up display booths in shopping malls for Department of the Environment (Beverage Containers Act).

WEEK #3 Distributed survey and began tabulation of results. Interviewed Inland (Oil recycling) about their recycling program in northern New Brunswick. Placed posters around the Campbellton area to promote "Mug Up Day" on July 10th. Created a pamphlet on composting for distribution during Bon Ami festival.

WEEK #4 Began planning for an "Environment Day" in conjunction with the Campbellton Parks and Recreation Department. Tentative date July 30th. Distributed more surveys in the St. Arthur, Campbellton, and Dalhousie regions and tabulated results. Attended public meeting in St. Arthur.

WEEK #5 Interviewed Mill Auto Parts Recycling. Distributed and tabulated surveys. Obtained several composting units from manufacturers. Attended committee meeting in Eel River Crossing and presented progress report. Worked during Bon Ami "Market Days" demonstrating composting and drew for a home composting unit.

WEEK #6 Held an "Environment Day" in conjunction with the Campbellton Parks and Recreation Department which included a tour of the Wastewater Treatment Plant and a local recycler as well as several videos and demonstrations. Distributed and tabulated surveys. Received promotional material on the "Green Cone" and "Green Keeper".

WEEK #7 Distributed and tabulated surveys. Interviewed Campbellton Salvage and Bottle Exchange.

WEEK #8 Distributed and tabulated surveys. Interviewed Triple R Recycling, a recycler of photocopier and laser printer cartridges. Interviewed Indisposables Cotton Diaper Co., a manufacturer of reusable cotton diapers. Typed minutes from August 10th Committee meeting.

WEEK #9 Distributed and tabulated surveys. Began statistical analysis of results. Began writing report.

WEEK #10 Finished statistical analysis of results. Finished report. Submitted report.

APPENDIX D

Environment Day Schedule

1)	Introduction	5 min
2)	Movie - Space Station Earth	23 min
3)	Environmental Quiz	10 min
4)	Correct and Explain Quiz	10 min
5)	Break (Pop and Doughnuts)	20 min
6)	Coloring Contest	20 min
7)	Playground Pickup (and photo)	25 min
8)	Distribution of surveys to children for parents to fill out and return to the Leisure Center or mail.	
9)	Hand out buttons and material pertaining to composting/recycling to the kids	
10)	Lunch Break	
11)	Movie - Recycling	8 min
12)	Implementation of Recycling Blue box	5 min
13)	Movie - Composting	10 min
14)	Composting Demonstration	10 min
15)	Tour of Wastewater Treatment Facility	60 min
16)	Tour of Redemption Center	30 min

Morning 9:30 - 11:30
Afternoon 1:30 - 3:30

Leisure Center	-- David Adams	152
Wastewater Treatment Plant	-- Luc Corriveau	144
Restigouche Solid Waste Committee	-- Kevin Parker	129
	-- Ian Comeau	129

APPENDIX E

Recyclers in the Restigouche Region

Inland

What: Petroleum products consisting mainly of used oils.

Where: Drop off depot at Victor Bernard and Sons
163 Craig Street
Charlo, N.B.
(506)-684-3791

or will pick up large quantities of oil from service stations or large industries.
Tel. 1-800-565-4383

Cost: Charges approximately $0.08 per litre.

Amount: 200 - 500 l average/pickup. (25 000 l/yr)

Main Customer: NBIP.

Mill Auto Parts Recycling

What: Cars and used car parts.

Where: Glencoe
(506)-753-4108
(506)-753-6156 Fax.

Cost: Varies depending on part and condition.

Amount: Usually scrap automobiles.

Main Customer: Mechanics/Consumers.

Better World Recycling (Out of business)

What: Newspaper, cardboard, bottles, cans, computer paper, and telephone directories.

Where: 87 Val D'Amour Road
(506)-789-1789

Cost: Varies.

Amount: Varies.

Main Customer: Consumers.

Campbellton Salvage and Bottle Exchange

What: Plastic and glass beverage bottles, cans, and scrap metals. (Mostly Aluminum and Copper)

Where: 204 Water Street
Campbellton, New Brunswick
(506)-753-2247

Cost: Pays 5-10 cents depending on size and type of bottle.
Pays market price for scrap Aluminum and Copper.

Amount: Averaging 15000 bottles and cans per week with a steadily increasing business.

Main Customer: Consumers.

Triple R Cartridges

What: Photocopier and laser printer cartridges. (Some makes and models)

Where: PO Box 205
Campbellton, New Brunswick
E3N 3G1
(506)-789-1299

Cost: $75.00 + taxes per refill.

Amount: 50 clients serviced approximately once per month each.

Main Customer: Local businesses. Soon expanding to the Dalhousie and Bathurst areas.

Indisposables Cotton Diaper Co. ltd.

What: Sells reusable diapers.

Where: Throughout the US and Canada.
1-800-663-1730

Cost: $74.95 (Small) $82.50 (Large)

Amount: Not sure of how many are in circulation.

Main Customers: New parents and day cares.

Marina Bottle Exchange

What: Beverage bottles and cans.

Where: 398 Mountain Brook
Charlo, N.B.

Cost: Pays 5-10 cents depending on the size and type of bottle. Pays 5 cents for cans.

Amount: Unsure of the exact amount being handled.

Main Customers: Consumers.